

NON-PUBLIC?: N
ACCESSION #: 8909080211
LICENSEE EVENT REPORT (LER)

FACILITY NAME: Yankee Nuclear Power Station, Rowe, Ma PAGE: 1 OF 02

DOCKET NUMBER: 05000029

TITLE: Reactor Scram - Loss of Power To Nuclear Instrument Cabinet "A"
EVENT DATE: 03/22/88 LER #: 88-002-01 REPORT DATE: 09/01/89

OPERATING MODE: 1 POWER LEVEL: 100

THIS REPORT IS SUBMITTED PURSUANT TO THE REQUIREMENTS OF 10 CFR
SECTION
50.73(a)(2)(iv)

LICENSEE CONTACT FOR THIS LER:
NAME: Russell A. Mellor, TELEPHONE: (413) 424-5261
Technical Director

COMPONENT FAILURE DESCRIPTION:
CAUSE: X SYSTEM: IG COMPONENT: XCT MANUFACTURER: A245
REPORTABLE NPRDS: N

SUPPLEMENTAL REPORT EXPECTED: NO

ABSTRACT:

On 3/22/88, at 0042, with the Plant operating in Mode 1 at 100% power, an automatic reactor scram occurred when power to the scram amplifiers in the Nuclear Instrument (NI) cabinet "A" was lost. The loss of power to NI Cabinet "A" was a result of a failed Sola Transformer (Type CV) within the NI Cabinet. The loss of power produces a loss of indication of NI channels 1, 3 & 6. An ENS phone call was made at 0141 on 3/22/88. The plant Emergency Diesel Generator No.2 started as required with the expected loss of power to the #1-2400 volt and #4-480 volt busses following the turbine generator trip.

The root cause of this event is the failure of one of two capacitors in the Sola Transformer. Both capacitors were replaced with direct replacements (in kind) which were dedicated in accordance with the plant Quality Assurance program. The NI channels were satisfactorily tested to the approved plant surveillance procedure. There was no adverse affect on the health or safety of the public as a result of this event. Similarly, but not reportable, a capacitor in the Sola transformer failed in 1985 and subsequently was

replaced during testing in 1985. The replacement capacitors were of a different manufacturer, since the original capacitor is no longer produced. This is the first reported event of this nature. No other corrective actions are deemed necessary at this time.

END OF ABSTRACT

TEXT PAGE 2 OF 02

On 3/22/88, at 0042, with the Plant operating in Mode 1 at 100% power, an automatic reactor scram occurred when power to the scram amplifiers in the Nuclear Instrument (NI) cabinet "A" was lost. The loss of power to NI Cabinet "A" was a result of a failed Sola Transformer (Type CV) within the NI Cabinet.

The loss of power produces a loss of indication of NI channels 1, 3 & 6. An ENS phone call was made at 0141 on 3/22/88 in accordance with 10 CFR 50.72(b)(2)(ii).

The plant Emergency Diesel Generator No.2 started as required with the expected loss of power to the #1-2400 volt and #4-480 volt busses following the turbine generator trip.

Similarly, a capacitor in the Sola transformer failed during testing in 1985 and subsequently was replaced. This failure was not reportable since the NI channels were removed from service during refueling for normal maintenance. The replacement capacitors are Dielektrol, 5MFD-660 VAX Part No. 26F6622FA manufactured by General Electric, a different manufacturer. The original capacitors were Sangamo, 5MFD-660 VAC Part No. 9815 manufactured by EIC and are no longer produced. The capacitors (old and new) are of the same ohms and volt capacities.

The root cause of this event is the failure of one of two capacitors in the Sola Transformer. Due to the age and failure of one of the capacitors, both capacitors were replaced with direct replacements (in kind). The capacitors were dedicated in accordance with the plant Quality Assurance program. Subsequently, the NI channels were satisfactorily tested to the approved plant surveillance procedure.

This is the first reported event of this nature. No other corrective actions are deemed necessary at this time. There was no adverse affect on the health or safety of the public as a result of this event.

ATTACHMENT 1 TO 8909080211 PAGE 1 OF 1

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Star Route, Rowe, Massachusetts 01367

September 1, 1989

BYR 89/136

U.S. Nuclear Regulatory Commission
Document Control Desk
Washington, DC 20555

Subject: Licensee Event Report No. 50-29/88-02, Rev. 1

Reactor Scram - Loss of Power to Nuclear Instrument Cabinet "A"

Dear Sir:

In accordance with 10 CFR 50.73(a)(2)(iv), the attached Licensee Event Report is hereby submitted.

Very truly yours,

Timothy K. Henderson
Acting Plant Superintendent

DJK/pkg
Enclosure

cc: 3! NSARC Chairman (YAEC)
1! Institute of Nuclear Power Operations (INPO)
1! USNRC, Region I
1! Resident Inspector

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